



CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate

Number. 2317548

Catalogue Number	12534
Lot Number	A0469002
Description	D-Mannitol,98+%

CAS Number 69-65-8
Quality Test/Release Date 21/Jan/2025
Suggested retest date 21/Jan/2030
Country of Origin FRANCE
Declaration of Origin plant

BSE/TSE The product is made from potatoes, corn, maize

Result Name	Units	Specifications	Test Value
Appearance (Color)		White	White
Appearance (Form)		Crystalline powder	Crystalline powder
Infrared spectrum		Conforms	Conforms
Melting point		165°C to 170°C	167.2°C
HPLC	%	>=98.0	99.9
Loss on drying	%	=<0.3 (105°C, 4 hrs)	=<0.001 (105°C, 4 hrs)
Heavy metals (as Pb)	ppm	=<5	=<5
Specific optical rotation	nm	+23° to +25° (20°C, 589 (Ph.Eur directives)	+23.1° (20°C, 589) (Ph.Eur directives)
Nickel (Ni)	ppm	=<1	=<1
	pp		

Geert Torfs Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.